

**Amendments to the Specification**

Please replace the Abstract of the Disclosure with the following new abstract:

A heat exchanger, in particular for a motor vehicle, includes a heat exchange assembly with a primary side through which a first medium flows and a secondary side through which a second medium flows and a housing sleeve with an inlet and an outlet for a second medium.

**Amendments to the Specification (continued)**

Please replace the paragraph beginning at page 1, line 1 (consisting of the title) with the following new paragraph:

Heat Exchanger, in Particular for Motor Vehicles, Having Two Fluids

Please replace the paragraph beginning at page 1, line 35, with the following new paragraph:

~~This object is achieved by means of the features of patent claim 1.~~ According to the invention, a heat exchanger block, composed of pipes and at least one end piece, is surrounded by a housing casing through which a second medium can be conducted. As a result, further possibilities of use for the heat exchanger according to the invention, in particular in a heat pumping process with the refrigerant CO<sub>2</sub>, are obtained using the heat exchanger block which is described in DE 102 60 030 A1, for example, whose content is herewith expressly incorporated in the contents of the disclosure, and a housing casing which is relatively easy to manufacture. Consumption-optimized engines supply too little heat energy so that these vehicles require an additional heater, referred to as a supplementary heater. The coolant for the coolant circuit of the engine is used here as a heat source. The heat exchanger according to the invention can be used in this heat pump circuit both as a CO<sub>2</sub> vaporizer, which absorbs heat from the coolant, and as a CO<sub>2</sub> gas cooler which transfers heat to the coolant. The housing casing which can be manufactured as a sheet-metal component permits many variation possibilities for the guidance of the flow of the coolant so that a parallel flow, counter flow, cross flow

as well as parallel/counter-cross flow is possible. As a result, it is possible to make allowance for the various requirements made of the heat exchangers according to the invention.

Please cancel the paragraph beginning at page 2, line 27.